Please amend claim 6 as follows:

6 (Amended). The method of claim 1, wherein accumulating energy comprises producing an analog voltage signal.

Please cancel claims 18-20.

Please add the following new claims 21-23.

21 (New). A system comprising:

a processor;

a display coupled to said processor;

an imager; and

a display brightness control that receives ambient light information from the imager and adjusts the display brightness based on said information.

22 (New). The system of claim 21 including a driver coupled to said display brightness control, wherein the driver receives an indication of light brightness and based upon the indication automatically sends a signal to control the brightness of the display.

23 (New). The display of claim 22 including a storage coupled to said processor, said storage including a look-up table comprising a plurality of values corresponding to the light information.

REMARKS

Claim 1

Claim 1 has been amended to include the subject matter of claim 4. Claim 4 was rejected over the combination of Helms in view of Hosoi.

Claim 1 as amended covers the use of an imager's integration time to determine display brightness. For example, in one embodiment, it may use a look-up table to translate the information from the imager to a form which is useful to adjust the display brightness.

2

The Hosoi patent does not have anything to do with the use of an imager, such as a digital camera, or how to map an integration period suitable for use in a multi-pixel imager to a suitable adjustment for display brightness.

Therefore, the combination of Helms and Hosoi still fails to teach the claimed invention. For example, there is no suggestion that it would be desirable to use information available from an imager to develop integration time for use in controlling the brightness of a display. Therefore, reconsideration of the rejection of claim 1 as amended is respectfully requested.

Therefore, claim 1 is in condition for allowance. For the same reasons, claim 21 should be allowable.

Claim 8

Claim 8 was rejected under Section 102 over the Helms patent.

Claim 8 calls for a system including a receiver of light information to produce an indicator and a driver coupled to the receiver. The driver receives the indicator and, based on the indicator, automatically sends a signal to control the brightness of a display.

In Helms, an auto brightness control uses a look-up table. In the claimed invention, the output of a luminance sensing circuit is sent to a display driver chip's brightness control input. The calibration operation in manufacturing develops the data to build the look-up table, correlating detected light levels with display brightness levels, and incorporating this in the display driver itself. This leverages the display's factory calibration step, which also comprehends co-calibration of the light sensing circuit. See Specification at page 3, line 14 - page 4, line 2.

The claimed system is well adapted, particularly, for lower cost devices. The claimed invention would result in lower cost because fewer parts may be needed and the manufacturing process may be leveraged to make the system work.

In view of these remarks, claim 8 and the claims dependent thereon should be in condition for allowance.
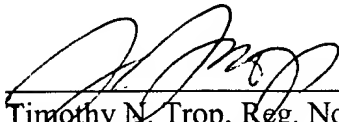
Respectfully requested,

Date: <u>April 17, 2002</u>

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APPENDIX

Please amend claim 1 as follows:

1 (Amended). A method comprising:

receiving an indicator of the ambient light for a system having a display by accumulating energy into a plurality of sensors of an imager, deriving an integration time based upon the accumulated energy and determining the indicator based upon the integration time; and

automatically adjusting a brightness for the display based upon the indicator.

Please cancel claim 4 without prejudice.

Please amend claim 6 as follows:

6 (Amended). The method of claim [4] 1, wherein accumulating energy comprises producing an analog voltage signal.

Please cancel claims 18-20.

Please add the following new claims 21-23.

21 (New). A system comprising:

a processor;

a display coupled to said processor;

an imager; and

a display brightness control that receives ambient light information from the imager and adjusts the display brightness based on said information.

22 (New). The system of claim 21 including a driver coupled to said display brightness control, wherein the driver receives an indication of light brightness and based upon the indication automatically sends a signal to control the brightness of the display.

i

23 (New). The display of claim 22 including a storage coupled to said processor, said storage including a look-up table comprising a plurality of values corresponding to the light information.